

Mokelumne Watershed Environmental Benefits Program





Sustainable Conservation

EDF

ENVIRONMENTAL
DEFENSE FUND™

Finding the ways that work



SIERRA NEVADA
CONSERVANCY



The Nature
Conservancy

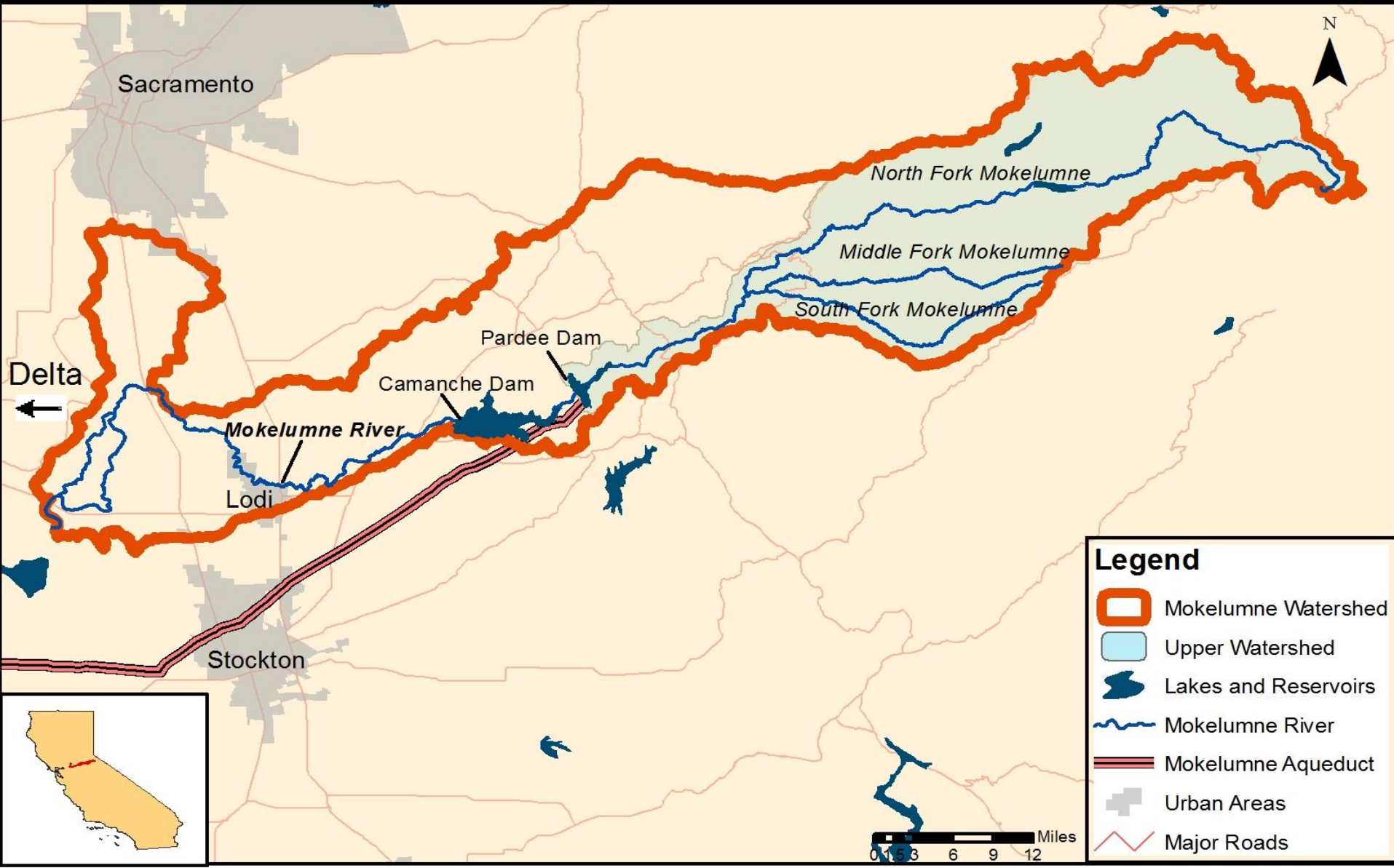
Protecting nature. Preserving life.™



Environmental
Incentives



Pilot | Mokelumne Watershed



Wildfires are Costly



- Moonlight Fire (2007), \$122 million, 65,000 acres
- Angora Fire (2007), \$141 million, 254 home destroyed

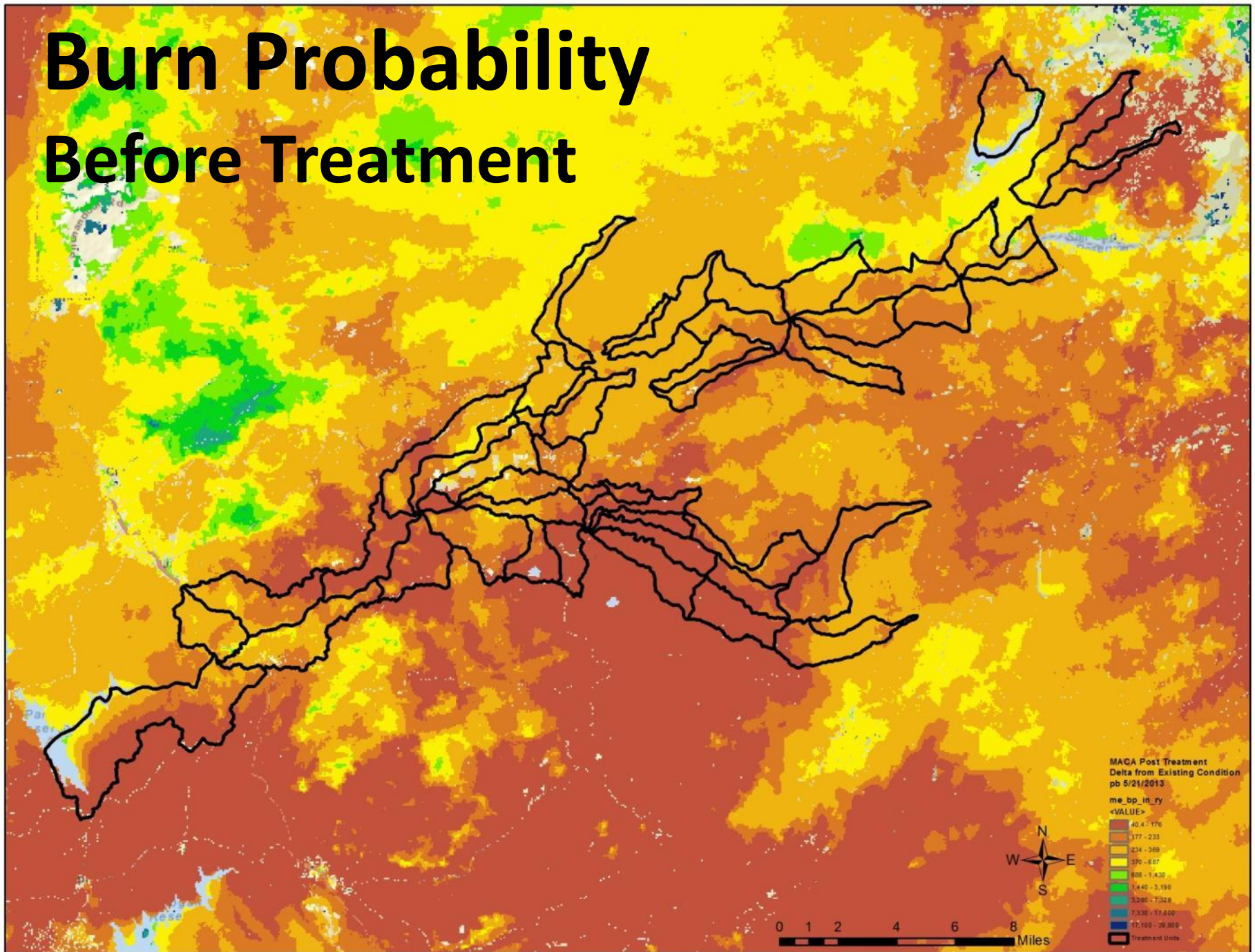
Severe Wildfires Increase Sediment Load



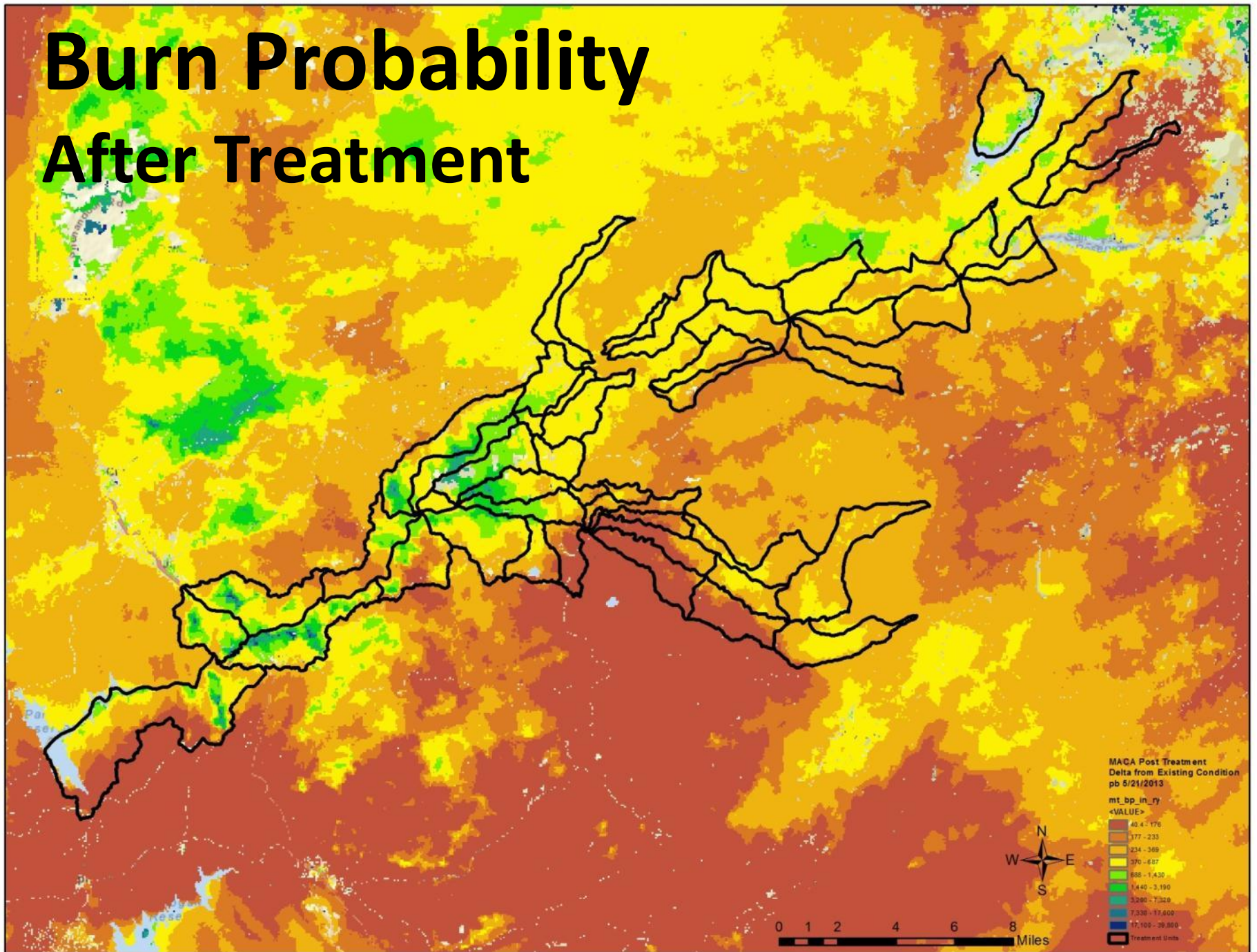
Sediment Can Fill-Up Reservoirs



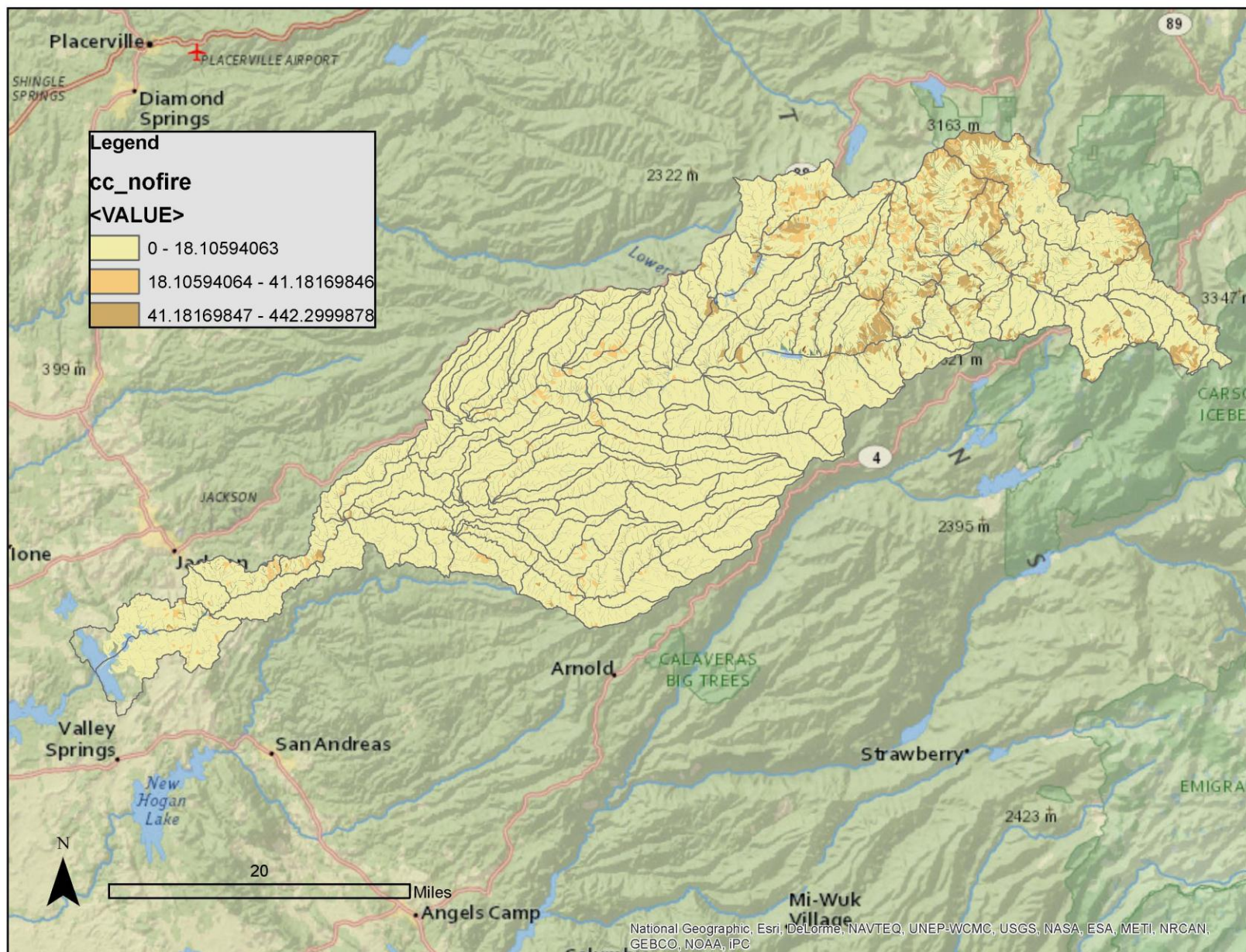
Burn Probability Before Treatment



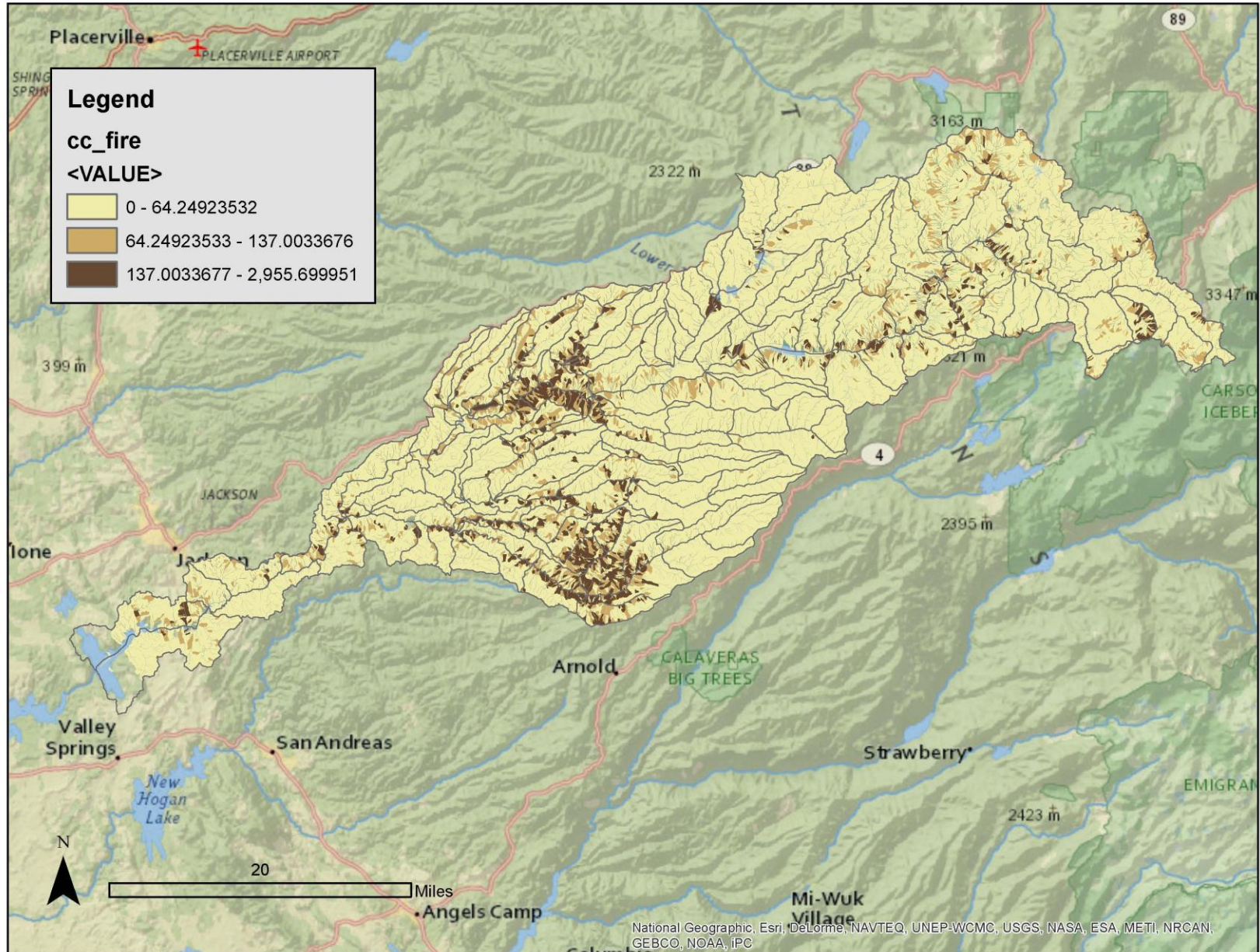
Burn Probability After Treatment



Mokelumne Sediment Risk – No Fire Scenario



Mokelumne Sediment Risk – Post Fire Scenario



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Northern Sierra Nevada Watershed Assessment

Northern Sierra Watershed Assessment

What is the potential to enhance water quality and quantity in the Northern Sierra Nevada through watershed restoration?

Does it make economic sense for downstream users to invest in upper watershed activities?



Northern Sierra Watershed Assessment

Proactive and strategic investments can conserve and restore Sierra Nevada watersheds that supply water for people and nature.



Forest Thinning & Biomass



Meadow Restoration



Land Conservation

Forest Thinning



- **Decrease risk of high severity wildfire**
 - **Decrease post-fire sediment**
 - **Increase water yield**

Meadow Restoration



- Store water and release at the end of summer

Land Conservation



- **Protect important groundwater recharge areas**
 - **Protect floodplains**



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